

Title (en)  
OPTICAL FIBRE WITH QUANTUM DOTS

Title (de)  
OPTISCHE FASER MIT QUANTENPUNKTEN

Title (fr)  
FIBRE OPTIQUE COMPORTANT DES POINTS QUANTIQUES

Publication  
**EP 0783784 B1 20001108 (EN)**

Application  
**EP 95932841 A 19950929**

Priority  
• EP 95932841 A 19950929  
• EP 94307113 A 19940929  
• GB 9502322 W 19950929

Abstract (en)  
[origin: WO9610282A1] An optical fibre comprises a tubular glass cladding (1) with a central opening (2), filled with a colloidal solution of quantum dots (4) in a support medium (3). The quantum dots may be caused to produce luminescence in response to input optical radiation, for example to produce optical amplification or laser radiation. A waveguide with an active medium comprising colloidal quantum dots is claimed.

IPC 1-7  
**H01S 5/32**; **H01S 3/06**; **G02B 6/20**

IPC 8 full level  
**G02B 6/02** (2006.01); **G02B 6/032** (2006.01); **G02B 6/122** (2006.01); **G02F 1/35** (2006.01); **H01S 3/06** (2006.01); **H01S 3/067** (2006.01); **H01S 3/10** (2006.01); **H01S 5/32** (2006.01); **H01S 5/30** (2006.01); **H01S 5/34** (2006.01)

CPC (source: EP KR US)  
**B82Y 10/00** (2013.01 - EP US); **B82Y 20/00** (2013.01 - EP US); **C03C 13/04** (2013.01 - EP US); **C03C 13/046** (2013.01 - EP US); **C03C 14/006** (2013.01 - EP US); **G02B 6/0229** (2013.01 - EP US); **G02B 6/032** (2013.01 - EP US); **G02B 6/1225** (2013.01 - EP US); **G02F 1/35** (2013.01 - KR); **G02F 1/365** (2013.01 - EP US); **H01S 3/06708** (2013.01 - EP US); **H01S 5/32** (2013.01 - KR); **H01S 5/34** (2013.01 - KR); **G02B 6/02385** (2013.01 - EP US); **G02F 1/01791** (2021.01 - EP US); **H01S 3/169** (2013.01 - EP US); **H01S 5/30** (2013.01 - EP US); **H01S 5/3412** (2013.01 - EP US); **Y10S 977/773** (2013.01 - EP US); **Y10S 977/774** (2013.01 - EP US); **Y10S 977/815** (2013.01 - EP US); **Y10S 977/824** (2013.01 - EP US); **Y10S 977/888** (2013.01 - EP US)

Cited by  
WO0060388A1; US6985661B1; WO2014177943A2

Designated contracting state (EPC)  
BE DE ES FR GB IT NL PT

DOCDB simple family (publication)  
**WO 9610282 A1 19960404**; CA 2199506 A1 19960404; CA 2199506 C 20010731; DE 69519384 D1 20001214; DE 69519384 T2 20010523; EP 0783784 A1 19970716; EP 0783784 B1 20001108; ES 2153495 T3 20010301; JP H10506502 A 19980623; KR 970706628 A 19971103; US 5881200 A 19990309

DOCDB simple family (application)  
**GB 9502322 W 19950929**; CA 2199506 A 19950929; DE 69519384 T 19950929; EP 95932841 A 19950929; ES 95932841 T 19950929; JP 51152496 A 19950929; KR 19970701908 A 19970319; US 80917997 A 19970320